



SEQUENCE LISTING

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MARTINS, JAMES B.
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<120> NOVEL ANTIARRHYTHMIC PEPTIDES

<130> 55461-C2 (45487)

<140> 10/772,774

<141> 2004-02-04

<160> 299

<170> PatentIn Ver. 2.1

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<210> 155

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<210> 156

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antiarrythmic peptide

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antiarrythmic peptide

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antiarrythmic peptide

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<210> 181

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antiarrythmic peptide

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antiarrythmic peptide

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<210> 213

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<210> 214

<211> 6

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antiarrythmic peptide

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<210> 217

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antiarrythmic peptide

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antiarrythmic peptide

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antiarrythmic peptide

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antiarrythmic peptide

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antiarrythmic peptide

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antiarrhythmic peptide

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<223> Sar

<400> 234
Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 235
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Sar

<400> 235
Tyr Pro Xaa Gly Ala Gly
1 5

<210> 236
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Sar

<220>
<221> MOD_RES
<222> (3)
<223> 4Hyp

<400> 236
Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 237
<211> 6
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (3)

<223> 4Hyp

<400> 237

Tyr Pro Xaa Gly Ala Gly
1 5

<210> 238

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (2)

<223> 4Hyp

<400> 238

Tyr Xaa Pro Gly Ala Gly
1 5

<210> 239

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (2)..(3)

<223> 4Hyp

<400> 239

Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 240

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 240
Tyr Pro Pro Gly Ala Gly
1 5

<210> 241
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
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<222> (2)..(3)
<223> Sar

<400> 241
Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 242
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Sar

<400> 242
Tyr Xaa Pro Gly Ala Gly
1 5

<210> 243
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES

<222> (2)
<223> 4Hyp

<220>
<221> MOD_RES
<222> (3)
<223> Sar

<400> 243
Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 244
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Sar

<400> 244
Tyr Pro Xaa Gly Ala Gly
1 5

<210> 245
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
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<220>
<221> MOD_RES
<222> (3)
<223> 4Hyp

<400> 245
Tyr Xaa Xaa Gly Ala Gly
1 5

<210> 246

<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Dapa

<220>
<221> MOD_RES
<222> (4)
<223> Hyp

<400> 246
Gly Xaa Gly Xaa Pro Tyr
1 5

<210> 247
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Dab

<220>
<221> MOD_RES
<222> (4)
<223> Hyp

<400> 247
Gly Xaa Gly Xaa Pro Tyr
1 5

<210> 248
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES
<222> (2)
<223> Dab

<220>
<221> MOD_RES
<222> (5)
<223> Hyp

<400> 248
Gly Xaa Ala Gly Xaa Pro Tyr
1 5

<210> 249
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Dapa

<220>
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<222> (5)
<223> Hyp

<400> 249
Gly Xaa Ala Gly Xaa Pro Tyr
1 5

<210> 250
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 250
Tyr Pro Xaa Gly Glu Gly
1 5

<210> 251
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 251
Tyr Pro Xaa Gly Asp Gly
1 5

<210> 252
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 252
Tyr Pro Xaa Gly Ala Asp Gly
1 5

<210> 253
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 253
Tyr Pro Xaa Gly Ala Glu Gly
1 5

<210> 254
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 254
Gly Ala Gly Asn Tyr
1 5

<210> 255
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 255
Tyr Ala Ser Ala Gly Asn
1 5

<210> 256
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 256
Tyr Ala Ser Ala Gly Asn
1 5

<210> 257
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 257
Tyr Gly Asn Tyr Ala Gly Asn
1 5

<210> 258

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 258
Tyr Val Ser Gly Ala Gly Asn
1 5

<210> 259
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 259
Ala Gly Asn Tyr
1

<210> 260
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 260
Ala Gly Asn Tyr
1

<210> 261
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Hyp

<400> 261
Pro Xaa Gly Ala Gly

1

5

<210> 262
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Hyp

<400> 262
Pro Xaa Gly Ala Gly
1 5

<210> 263
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Hyp

<400> 263
Pro Xaa Gly Ala Gly
1 5

<210> 264
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 264
Tyr Pro Xaa Gly Ala Gly

1

5

<210> 265
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Tyr(3,5-di-I)

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 265
Tyr Pro Xaa Gly Ala Gly
1 5

<210> 266
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 266
Gly Pro Xaa Gly Ala Gly
1 5

<210> 267
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES

<222> (4)
<223> Hyp

<400> 267
Gly Ala Gly Xaa Pro Tyr
1 5

<210> 268
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Hyp

<400> 268
Pro Xaa Gly Ala Gly
1 5

<210> 269
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<223> NCG between positions 3 and 4

<400> 269
Gly Ala Gly Pro Tyr
1 5

<210> 270
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<223> T4C between positions 3 and 4

<400> 270

Gly Ala Gly Pro Tyr
1 5

<210> 271
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<223> A2C between positions 3 and 4

<400> 271
Gly Ala Gly Pro Tyr
1 5

<210> 272
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<223> PC between positions 3 and 4

<400> 272
Gly Ala Gly Pro Tyr
1 5

<210> 273
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 273
Tyr Pro Xaa Gly Ala Gly
1 5

<210> 274
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<400> 274
Tyr Pro Xaa Gly Ala Gly
1 5

<210> 275
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Cys (Acm)

<220>
<221> MOD_RES
<222> (5)
<223> Hyp

<220>
<221> MOD_RES
<222> (6)
<223> Cys (Acm)

<400> 275
Cys Gly Ala Gly Xaa Pro Tyr Cys
1 5

<210> 276
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Cys (Acm)

<220>
<221> MOD_RES
<222> (3)
<223> Hyp

<220>
<221> MOD_RES
<222> (6)
<223> Cys (Acm)

<400> 276
Cys Gly Xaa Pro Tyr Cys
1 5

<210> 277
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Cys (Acm)

<220>
<221> MOD_RES
<222> (4)
<223> Hyp

<220>
<221> MOD_RES
<222> (8)
<223> Cys (Acm)

<400> 277
Cys Tyr Pro Xaa Gly Ala Gly Cys
1 5

<210> 278
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Cys (Acm)

<220>
<221> MOD_RES
<222> (4)
<223> Hyp

<220>
<221> MOD_RES
<222> (6)
<223> Cys (Acm)

<400> 278
Cys Tyr Pro Xaa Gly Cys
1 5

<210> 279
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (7)
<223> Hyp

<400> 279
Pro Tyr Asn Gly Ala Gly Xaa
1 5

<210> 280
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (1)
<223> Hyp

<400> 280
Xaa Pro Tyr Asn Gly Ala Gly
1 5

<210> 281
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Sar

<220>
<221> MOD_RES
<222> (4)
<223> Hyp

<400> 281
Gly Ala Xaa Xaa Pro Tyr
1 5

<210> 282
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> Hyp

<400> 282
Pro Xaa Gly Ala Gly
1 5

<210> 283
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)

<223> Hyp

<400> 283

Pro Xaa Gly Ala Gly
1 5

<210> 284

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Hyp

<400> 284

Tyr Pro Xaa Gly Ala Gly
1 5

<210> 285

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (1)

<223> Tyr(3,5-di-I)

<220>

<221> MOD_RES

<222> (3)

<223> Hyp

<400> 285

Tyr Pro Xaa Gly Ala Gly
1 5

<210> 286

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

antiarrythmic peptide

<220>

<221> MOD_RES

<222> (4)

<223> Hyp

<400> 286

Gly Ala Gly Xaa Pro Tyr Gln
1 5

<210> 287

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (4)

<223> Hyp

<400> 287

Gly Ala Gly Xaa Pro Tyr Asn
1 5

<210> 288

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 288

Gly Ala Gly Pro Pro Tyr Asn
1 5

<210> 289

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Hyp

<400> 289

Tyr Pro Xaa Gly Ala Gly Asn
1 5

<210> 290

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Hyp

<400> 290

Tyr Pro Xaa Gly Ala Asn
1 5

<210> 291

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>

<221> MOD_RES

<222> (1)

<223> Tyr(3-I,5-I)

<220>

<221> MOD_RES

<222> (3)

<223> 4Hyp

<400> 291

Tyr Pro Xaa Gly Ala Gly Asn
1 5

<210> 292

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

antiarrythmic peptide

<400> 292

Gly Ala Gly Asn Tyr
1 5

<210> 293

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 293

Ala Gly Asn Tyr
1

<210> 294

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 294

Ala Gly Asn Tyr
1

<210> 295

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 295

Gly Pro Pro Gly Ala Gly
1 5

<210> 296

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<400> 296
Gly Pro Gly Gly Ala Gly
1 5

<210> 297
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (2)
<223> 4Hyp

<400> 297
Pro Xaa Gly Ala Gly
1 5

<210> 298
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> 4Hyp

<400> 298
Tyr Pro Xaa Gly Ala Gly Asn
1 5

<210> 299
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
antiarrythmic peptide

<220>
<221> MOD_RES
<222> (3)
<223> 4Hyp

<400> 299

Tyr Pro Xaa Gly Ala Asn

1

5